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\*\*FILE\*\*ID\*\*ON

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ON  
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- ON ERROR COMMAND EXECUTION

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ON ERROR  
RESET ON ERROR PARAMETERS

0000 1 .TITLE ON - ON ERROR COMMAND EXECUTION  
0000 2 .IDENT 'V04-000'  
0000 3 :\*\*\*\*\*  
0000 4 :  
0000 5 :  
0000 6 :  
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0000 27 :  
0000 28 : ON ERROR DCLS COMMAND EXECUTION  
0000 29 :  
0000 30 : D. N. CUTLER 20-MAY-77  
0000 31 :  
0000 32 : MODIFIED BY:  
0000 33 :  
0000 34 : V03-003 PCG0003 Peter George 27-May-1983  
0000 35 : Add NOTHEN status.  
0000 36 :  
0000 37 : V03-002 PCG0002 Peter George 23-Nov-1982  
0000 38 : Input buffer size has increased to a word in length.  
0000 39 :  
0000 40 : V03-001 PCG0001 Peter George 15-Jul-1982  
0000 41 : Disable indirect file recognition a little earlier.  
0000 42 :---

0000 44 :  
0000 45 : MACRO LIBRARY CALLS  
0000 46 :  
0000 47 :  
0000 48 PRCDEF :DEFINE PROCESS WORK AREA  
0000 49 WRKDEF :DEFINE COMMAND WORK AREA  
0000 50 \$CLIMSGDEF :DEFINE ERROR/STATUS VALUES  
0000 51 :  
0000 52 : LOCAL DATA  
0000 53 :  
0000 54 :  
0000 55 :  
00000000 56 PSECT DCL\$ZCODE,BYTE,RD,NOWRT :  
0000 57 LEVELTBL: :SEVERIY LEVEL TABLE  
4F 52 52 45 02 0000 58 .ASCII <2>/ERRO/ :ERROR  
45 56 45 53 04 0005 59 .ASCII <4>/SEVE/ :SEVERE ERROR  
4E 52 41 57 00 000A 60 .ASCII <0>/WARN/ :WARNING  
54 4E 4F 43 01 000F 61 .ASCII <1>/CONT/ :CONTROL Y  
0014 62 LEVELEND: :  
4E 4E 4F 43 01 000F 0014

0014 64 .SBTTL ON ERROR  
 0014 65 :+ DCL\$ON - ON ERROR  
 0014 66 : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE ON DCLS COMMAND.  
 0014 67 :  
 0014 68 :  
 0014 69 :  
 0014 70 : INPUTS:  
 0014 71 :  
 0014 72 : R10 = BASE ADDRESS OF COMMAND WORK AREA.  
 0014 73 : R11 = BASE ADDRESS OF PROCESS WORK AREA.  
 0014 74 :  
 0014 75 : OUTPUTS:  
 0014 76 :  
 0014 77 : THE ON CLAUSE IS PARSED AND THE CORRESPONDING ERROR LEVEL IS COMPUTED.  
 0014 78 : STORAGE IS ALLOCATED FOR THE THEN CLAUSE AND IT IS COPIED FOR SUBSEQUENT  
 0014 79 : REFERENCE WHEN AN ON CONDITION ACTUALLY EXISTS.  
 0014 80 :  
 0014 81 : R0 LOW BIT CLEAR INDICATES FAILURE TO ESTABLISH ON CONDITION PARAMETERS.  
 0014 82 :  
 0014 83 : R0 = DCLS\_ONERR - INVALID ERROR LEVEL SPECIFIED.  
 0014 84 : R0 = DCLS\_ONLEVL - ON CONDITION CAN NOT BE ESTABLISHED AT CURRENT  
 0014 85 : COMMAND LEVEL.  
 0014 86 : R0 = DCL\$ONOVF - NO ROOM FOR ON CONDITION COMMAND TEXT.  
 0014 87 : R0 = DCLS\_PARMDEL - INVALID PARAMETER DELIMITER.  
 0014 88 :  
 0014 89 : R0 LOW BIT SET INDICATES SUCCESSFUL COMPLETION.  
 0014 90 :  
 0014 91 : R0 = DCL\$NORMAL - NORMAL COMPLETION.  
 0014 92 :  
 0014 93 :  
 0014 94 DCL\$ON:: :ON ERROR  
 FFE9' 30 0014 95 BSBW DCL\$MARK :MARK CURRENT PARSE POSITION  
 FFE6' 30 0017 96 BSBW DCL\$SETCHAR :PEEK AT NEXT CHARACTER IN INPUT BUFFER  
 0087 30 001A 97 BSBW 90\$ :CHECK FOR BLANK TERMINATOR  
 0081 30 001D 98 BSBW 80\$ :MOVE TERMINATOR, GET TOKEN, AND CHECK  
 51 04 D1 0020 99 CMPL #4,R1 :ERROR LEVEL LONGER THAN 4 CHARACTERS  
 03 18 0023 100 BGEQ 10\$ :IF GEQ NO  
 51 04 D0 0025 101 MOVL #4,R1 :SET LENGTH OF ERROR LEVEL TO 4  
 55 D5 AF 9E 0028 102 10\$: MOVAB LEVELTBL,R5 :GET ADDRESS OF ERROR LEVEL NAME TABLE  
 57 04 D0 002C 103 MOVL #<LEVELEND-LEVELTBL>/5,R7 :SET LOOP COUNT  
 53 51 7D 002F 104 20\$: MOVQ R1,R3 :COPY ERROR LEVEL NAME PARAMETERS  
 58 85 9A 0032 105 MOVZBL (R5)+,R8 :SAVE ERROR LEVEL NUMBER  
 50 55 D0 0035 106 MOVL R5,R0 :SET ADDRESS OF ERROR LEVEL NAME  
 85 D5 0038 107 TSTL (R5)+ :POINT TO NEXT ENTRY IN TABLE  
 84 80 91 003A 108 30\$: CMPB (R0)+,(R4)+ :CHARACTERS MATCH?  
 05 12 003D 109 BNEQ 40\$ :IF NEQ NO  
 F8 53 F5 003F 110 SOBGTR R3,30\$ :ANY MORE CHARACTERS TO COMPARE?  
 08 11 0042 111 BRB 50\$ :  
 E8 57 F5 0044 112 40\$: SOBGTR R7,20\$ :ANY MORE ENTRIES TO COMPARE?  
 0047 113 STATUS ONERR :SET INVALID ERROR LEVEL SPECIFIED STATUS  
 05 004E 114 RSB :  
 004F 115 :  
 004F 116 :  
 004F 117 : LEGAL ERROR LEVEL - PARSE THEN CLAUSE  
 004F 118 :  
 004F 119 :  
 FFAE' 30 004F 120 50\$: BSBW DCL\$MARK :MARK CURRENT PARSE POSITION

50 00038210 7D 10 0052 121 BSB8 80\$ ;MOVE TERMINATOR, GET TOKEN, AND CHECK  
 4E454854 8F 8F 00 0054 122 MOVL #CLIS NOTHEN, R0 ;ASSUME INVALID KEYWORD  
 62 D1 005B 123 CMPL (R2), #^A'THEN' ;CHECK FOR REQUIRED KEYWORD  
 6C 12 0062 124 BNEQ 79\$ ;BR IF NOT VALID  
 FF99' 30 0064 125 BSBW DCLSMOVCHAR ;MOVE SPACE DELIMITER  
 68 AB 20 A8 0067 126 BISW #PRC\_M\_IND, PRC\_W\_FLAGS(R11) ;DISABLE "a" FILE RECOGNITION  
 FF92' 30 006B 127 BSBW DCLSSETNBLK ;SET TO FIRST NON-BLANK CHARACTER  
 FF8F' 30 006E 128 BSBW DCLSMARK ;MARK START OF THEN CLAUSE  
 FF8C' 30 0071 129 60\$: BSBW DCLSMOVCHAR ;MOVE CHARACTER TO COMMAND BUFFER  
 FB 12 0074 130 BNEQ 60\$ ;UNTIL END OF LINE  
 68 AB 20 AA 0076 131 BICW #PRC\_M\_IND, PRC\_W\_FLAGS(R11) ;ENABLE "a" FILE RECOGNITION  
 FF83' 30 007A 132 BSBW DCLSMARKEDTOKEN ;GET DESCRIPTOR OF THEN CLAUSE  
 007D 133  
 F0 AA 02 A8 007D 134 BISW #WRK\_M\_COMMAND, WRK\_W\_FLAGS(R10) ;SET COMMAND IN PROGRESS  
 51 0100 8F B1 0081 135 CMPW #WRK\_C\_INPBUFSIZ, RT ;ON COMMAND TEXT TOO LARGE FOR INPUT BUFFER?  
 6C 1F 0086 136 BLSSU 130\$ ;IF LSSU YES  
 05 68 AB 06 E0 0088 137 BBS #PRC\_V\_MODE, PRC\_W\_FLAGS(R11), 70\$ ;IF SET, NONINTERACTIVE JOB  
 5C AB D5 008D 138 TSTL PRC\_C\_INDEPTH(RT1) ;INDIRECT LEVEL NONZERO?  
 52 13 0090 139 BEQL 110\$ ;IF EQL NO  
 56 51 7D 0092 140 70\$: MOVQ R1, R6 ;SAVE DESCRIPTOR OF THEN CLAUSE  
 0095 141 DISABLE ;DISABLE CONTROL Y/C AST'S  
 04 8E 7C 009B 142 CLRQ (SP)+ ;REMOVE RETURN INFORMATION FROM STACK  
 58 E9 009D 143 BLBC R8, 72\$ ;BR IF ON CONDITION COMMAND  
 5A 10 00A0 144 BSB8 DCLSONCTLYRST ;RESET ON CONTROL Y COMMAND  
 02 11 00A2 145 BRB 74\$  
 51 56 5D 10 00A4 146 72\$: BSB8 DCLSRESET ;RESET ON ERROR PARAMETERS  
 01 C1 00A6 147 74\$: ADDL3 #1, R6, R1 ;ADD BYTE FOR LENGTH  
 FF53' 30 00AA 148 BSBW DCLSALLDYNMEM ;ALLOCATE THE MEMORY  
 3C 50 E9 00AD 149 BLBC R0, 120\$ ;IF LBC ALLOCATION FAILURE  
 07 58 E9 00B0 150 BLBC R8, 76\$ ;BR IF DOING ON CONDITION  
 0088 CB 52 00 00B3 151 MOVL R2, PRC\_L\_ONCTLY(R11) ;SET ON CONTROL Y HANDLER  
 08 11 00B8 152 BRB 78\$  
 6C AB 52 DO 00BA 153 76\$: MOVL R2, PRC\_L\_ONERROR(R11) ;SAVE ADDRESS OF ON ERROR TEXT BUFFER  
 6A AB 58 80 00BE 154 MOVW R8, PRC\_W\_ONLEVEL(R11) ;SAVE ON ERROR LEVEL  
 82 51 90 00C2 155 78\$: MOVB R1, (R2)+ ;SAVE LENGTH OF ON TEXT BUFFER  
 62 67 56 28 00C5 156 MOVC R6, (R7), (R2) ;MOVE TEXT TO ON ERROR BUFFER  
 00C9 157 STATUS NORMAL ;SET NORMAL COMPLETION STATUS  
 05 00D0 158 79\$: RSB ;  
 00D1 159  
 00D1 160 :  
 00D1 161 : MOVE TERMINATOR, GET TOKEN, AND CHECK FOR BLANK TERMINATOR  
 00D1 162 :  
 00D1 163 :  
 50 FF2C' 30 00D1 164 80\$: BSBW DCLSMOVTKN ;MOVE TERMINATOR AND GET TOKEN  
 20 91 00D4 165 90\$: CMPB #^A/ /, R0 ;BLANK TERMINATOR?  
 01 12 00D7 166 BNEQ 100\$ ;IF NEQ NO  
 05 00D9 167 RSB  
 8E D5 00DA 168 100\$: TSTL (SP)+ ;CLEAN STACK  
 00DC 169 STATUS PARMDEL ;SET INVALID PARAMETER DELIMITER  
 05 00E3 170 RSB ;  
 00E4 171  
 00E4 172 :  
 00E4 173 : INVALID ON CONDITION LEVEL  
 00E4 174 :  
 00E4 175 :  
 00E4 176 110\$: STATUS ONLEVEL ;SET INVALID ON CONDITION LEVEL STATUS  
 05 00EB 177 RSB ;

- ON ERROR COMMAND EXECUTION  
ON ERROR

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00EC 178  
00EC 179 ;  
00EC 180 ; NO ROOM TO ALLOCATE ON COMMAND TEXT  
00EC 181 ;  
00EC 182  
05 00EC 183 120\$: STATUS ONOVF ;SET NO ROOM FOR COMMAND TEXT STATUS  
05 00F3 184 RSB ;  
00F4 185  
00F4 186  
00F4 187 ; ON COMMAND TEXT TOO LARGE FOR INPUT BUFFER  
00F4 188 ;  
00F4 189  
05 00F4 190 130\$: STATUS ONCCMD ;SET ON COMMAND TO COMPLEX STATUS  
05 00FB 191 RSB ;

00FC 193 .SBTTL RESET ON ERROR PARAMETERS  
 00FC 194 +  
 00FC 195 DCL\$ONRESET - RESET ON ERROR PARAMETERS  
 00FC 196  
 00FC 197 THIS ROUTINE IS CALLED TO RESET THE ON ERROR PARAMETERS TO THEIR DEFAULT  
 00FC 198 VALUES.  
 00FC 199  
 00FC 200 INPUTS:  
 00FC 201  
 00FC 202 NONE.  
 00FC 203  
 00FC 204 IT IS ASSUMED THAT CONTROL Y/C AST'S ARE DISABLED.  
 00FC 205  
 00FC 206 OUTPUTS:  
 00FC 207  
 00FC 208 IF AN ON ERROR COMMAND BUFFER IS CURRENTLY ALLOCATED, THEN IT IS RETURNED  
 00FC 209 TO THE DYNAMIC STORAGE REGION. THE ON ERROR LEVEL IS SET TO 'ERROR' AND  
 00FC 210 THE ON ERROR COMMAND TEXT POINTER IS CLEARED.  
 00FC 211 :-  
 00FC 212 .ENABL LSB  
 00FC 213  
 00FC 214 DCL\$ONCTLYRST:: :ON CONTROL Y RESET  
 00FC 215 MOVAB PRC\_L\_ONCTLY(R11),R1 :ADDRESS OF HANDLER  
 00FC 216 BRB 10\$ :  
 00FC 217  
 00FC 218 DCL\$ONRESET:: :RESET ON ERROR PARAMETERS  
 00FC 219 MOVAB PRC\_L\_ONERROR(R11),R1 :GET ADDRESS OF ON ERROR COMMAND TEXT  
 6A AB 02 00 0101 220 MOVW #2, PRC\_W\_ONLEVEL(R11) :RESET ON ERROR LEVEL TO ERROR  
 50 61 D0 0103 221 10\$: MOVL (R1), R0 :GET PREVIOUS HANDLER  
 11 13 010E 222 BEQL 20\$ :IF EQL NONE  
 61 D4 0110 223 CLRL (R1) :RESET PREVIOUS HANDLER  
 0000'CF 9F 0112 224 PUSHAB W^DCL\$T\_DEFONTXT :GET ADDRESS OF DEFAULT 'ON' TEXT  
 50 8E D1 0116 225 CMPL (SP)+, R0 :CHECK IF THAT IS THE STRING HERE  
 06 06 13 0119 226 BEQL 20\$ :IF YES, DON'T DEALLOCATE THAT  
 51 60 9A 0118 227 MOVZBL (R0), R1 :GET LENGTH OF ON ERROR COMMAND TEXT  
 FEDF' 30 011E 228 BSBW DCL\$DEADYNMEM :DEALLOCATE THE MEMORY  
 05 0121 229 20\$: RSB :  
 0122 230  
 0122 231 .END

CLIS_NORMAL	= 00030001	PRC_L_PPFLIST	00000070
CLIS_NOTHEN	= 00038210	PRC_L_RECALLPTR	0000012F
CLIS_ONCOMD	= 000380F0	PRC_L_RESTART	00000058
CLIS_ONERR	= 000380F8	PRC_L_SAVAP	00000000
CLIS_ONLEVEL	= 00038100	PRC_L_SAVFP	00000004
CLIS_ONOVF	= 00038108	PRC_L_SEVERITY	00000050
CLIS_PARMDEL	= 00038110	PRC_L_SPWN	000000C0
DCL\$ALLDYNMEM	***** X 02	PRC_L_STACKLM	000000A4
DCL\$DEADYNMEM	***** X 02	PRC_L_STACKPT	000000A0
DCL\$DISABLE	***** X 02	PRC_L_STATUS	00000054
DCL\$MARK	***** X 02	PRC_L_STS	00000084
DCL\$MARKEDTOKEN	***** X 02	PRC_L_STV	00000088
DCL\$MOVCHAR	***** X 02	PRC_L_SYMBOL	00000060
DCL\$MOVTOKEN	***** X 02	PRC_L_TMBX	00000074
DCL\$ON	00000014 RG 02	PRC_L_TRMLIST	00000010
DCL\$ONCTLYRS	000000FC RG 02	PRC_M_IND	= 00000020
DCL\$ONRESET	00000103 RG 02	PRC_Q_ALLOCREG	00000020
DCL\$SETCHAR	***** X 02	PRC_Q_COMMAND	000000E0
DCL\$SETNBLK	***** X 02	PRC_Q_FLUSHTIME	000000D0
DCL\$T DEFONTXT	***** X 02	PRC_Q_GLOBAL	00000028
LEVELEND	00000014 R 02	PRC_Q_IMAGENAME	000000D8
LEVELTBL	00000000 R 02	PRC_Q_KEYPAD	00000040
PRC_B_CONTINUE	000000F3	PRC_Q_LABEL	00000030
PRC_B_DEFRADIX	000000AE	PRC_Q_LOCAL	00000038
PRC_B_EXMDEPMOD	000000AD	PRC_Q_SAVEPRIV	000000E8
PRC_B_EXMDEPWID	000000AC	PRC_T_OUTDVI	= 0000011C
PRC_B_EXONLYL	0000012D	PRC_V_MODE	= 00000006
PRC_B_FLAGS2	000000AF	PRC_W_ASTIOSB	000000C6
PRC_B_IMGFLAG	00000078	PRC_W_ASTRETN	000000C8
PRC_B_OUTFLAGS	0000012C	PRC_W_ASTSTATUS	000000C4
PRC_B_PROMPTLEN	000000F0	PRC_W_ATTMBX	0000007A
PRC_C_LENGTH	00000534	PRC_W_FLAGS	00000068
PRC_G_COMMANDS	00000133	PRC_W_INPCHAN	00000064
PRC_G_PROMPT	000000F4	PRC_W_ONLEVEL	0000006A
PRC_K_LENGTH	00000534	PRC_W_OUTIFI	00000114
PRC_L_CURREKEY	00000048	PRC_W_OUTISI	00000116
PRC_L_EXMDEPADR	000000A8	PRC_W_OUTMBXCHN	000000CA
PRC_L_EXTARG	00000094	PRC_W_OUTMBXREF	000000CE
PRC_L_EXTBLK	0000008C	PRC_W_OUTMBXS1/	000000CC
PRC_L_EXTCOD	0000009C	PRC_W_PMPCTRL	000000F1
PRC_L_EXTHND	00000090	PRC_W_WAITIOSB	00000066
PRC_L_EXTPRM	00000098	WRK_B_CMDOPT	FFFFFC3
PRC_L_IDFLNK	000000BC	WRK_B_MAXPARM	FFFFFD0
PRC_L_IMGACTSTS	00000080	WRK_B_MINPARM	FFFFFD1
PRC_L_INDCLOCK	0000007C	WRK_B_PARMCNT	FFFFFCF
PRC_L_INDEPTH	0000005C	WRK_B_PARMSUM	FFFFFCF
PRC_L_INDFAB	0000001C	WRK_B_RECALLCNT	FFFFFC5
PRC_L_INDINPRAB	00000014	WRK_B_VALLEV	FFFFFC4
PRC_L_INDOUTRAB	00000018	WRK_B_VERBTYP	FFFFFC2
PRC_L_INPRAB	00000008	WRK_C_INPBUFSIZ	= 00000100
PRC_L_LASTKEY	0000004C	WRK_C_LENGTH	FFFFF486
PRC_L_LSTSTATUS	00000080	WRK_G_BUFFER	FFFFF492
PRC_L_ONCTLY	000000B8	WRK_G_INPBUF	FFFFF896
PRC_L_ONERROR	0000006C	WRK_G_RESULT	FFFFF9B6
PRC_L_OUTOFBAND	000000B4	WRK_K_LENGTH	FFFFF486
PRC_L_OUTRAB	0000000C	WRK_L_CHARPTR	FFFFF48E
PRC_L_OUTRABCTX	00000118	WRK_L_DISALLOW	FFFFFE6

ON  
Symbol table

- ON ERROR COMMAND EXECUTION

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WRK_L_ERRORRTN	FFFFF9AE
WRK_L_EXPANDPTR	FFFFF486
WRK_L_IMAGE	FFFFFEE2
WRK_L_MARKPTR	FFFFF48A
WRK_L_PAROUT	FFFFFD2
WRK_L_PMPTADDR	FFFFF9A2
WRK_L_PROMPTRTN	FFFFF9A6
WRK_L_PROPTR	FFFFFC6
WRK_L_QUABLK	FFFFFCA
WRK_L_READRTN	FFFFF9AA
WRK_L_RECALLPTR	FFFFFEA
WRK_L_RSLEND	FFFFFB6
WRK_L_RSLNXT	FFFFFBA
WRK_L_SAVAP	FFFFF8
WRK_L_SAVFP	FFFFFC
WRK_L_SAVSP	FFFFF4
WRK_L_SIGNALRTN	FFFFFD6
WRK_L_SPECRTN	FFFF9B2
WRK_L_TAB_VEC	FFFFFDE
WRK_L_VERB	FFFFFBE
WRK_M_COMMAND	= 00000002
WRK_W_FLAGS	FFFFFF0
WRK_W_FLAGS2	FFFFFF2
WRK_W_IMGCHAN	FFFFFEE
WRK_W_PMPTLEN	FFFF99E

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE
SABSS	FFFFFFFC ( 0.)	01 ( 1.)	NOPIC USR	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE
DCLS\$CODE	00000122 ( 290.)	02 ( 2.)	NOPIC USR	CON	REL	LCL	NOSHR	EXE	RD	NOWRT	NOVEC	BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	9	00:00:00.08	00:00:00.69
Command processing	81	00:00:00.71	00:00:04.41
Pass 1	174	00:00:05.33	00:00:15.50
Symbol table sort	0	00:00:00.55	00:00:01.17
Pass 2	45	00:00:00.99	00:00:04.66
Symbol table output	17	00:00:00.11	00:00:00.11
Psect synopsis output	1	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	327	00:00:07.79	00:00:26.61

The working set limit was 1050 pages.

23282 bytes (46 pages) of virtual memory were used to buffer the intermediate code.

There were 30 pages of symbol table space allocated to hold 405 non-local and 20 local symbols.

231 source lines were read in Pass 1, producing 14 object records in Pass 2.

27 pages of virtual memory were used to define 14 macros.

-----+  
! Macro library statistics !  
-----+

Macro library name

Macros defined

\$255\$DUA28:[SYSLIB]SYSBLDMLB.MLB;1	0
-\$255\$DUA28:[DCL.OBJ]DCL.MLB;1	6
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	3
TOTALS (all libraries)	9

500 GETS were required to define 9 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:ON/OBJ=OBJ\$:ON MSRC\$:ON/UPDATE=(ENH\$:ON)+EXECMLS/LIB+LIBS:DCL/LIB+SYSSLIBRARY:SYSBLDMLB/LIB

0072 AH-BT13A-SE  
VAX/VMS V4.0

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MESSAGE LIS

PARSENT LIS

ON LIS

READREC LIS

RECALLSUB LIS

RPCCLIENT LIS